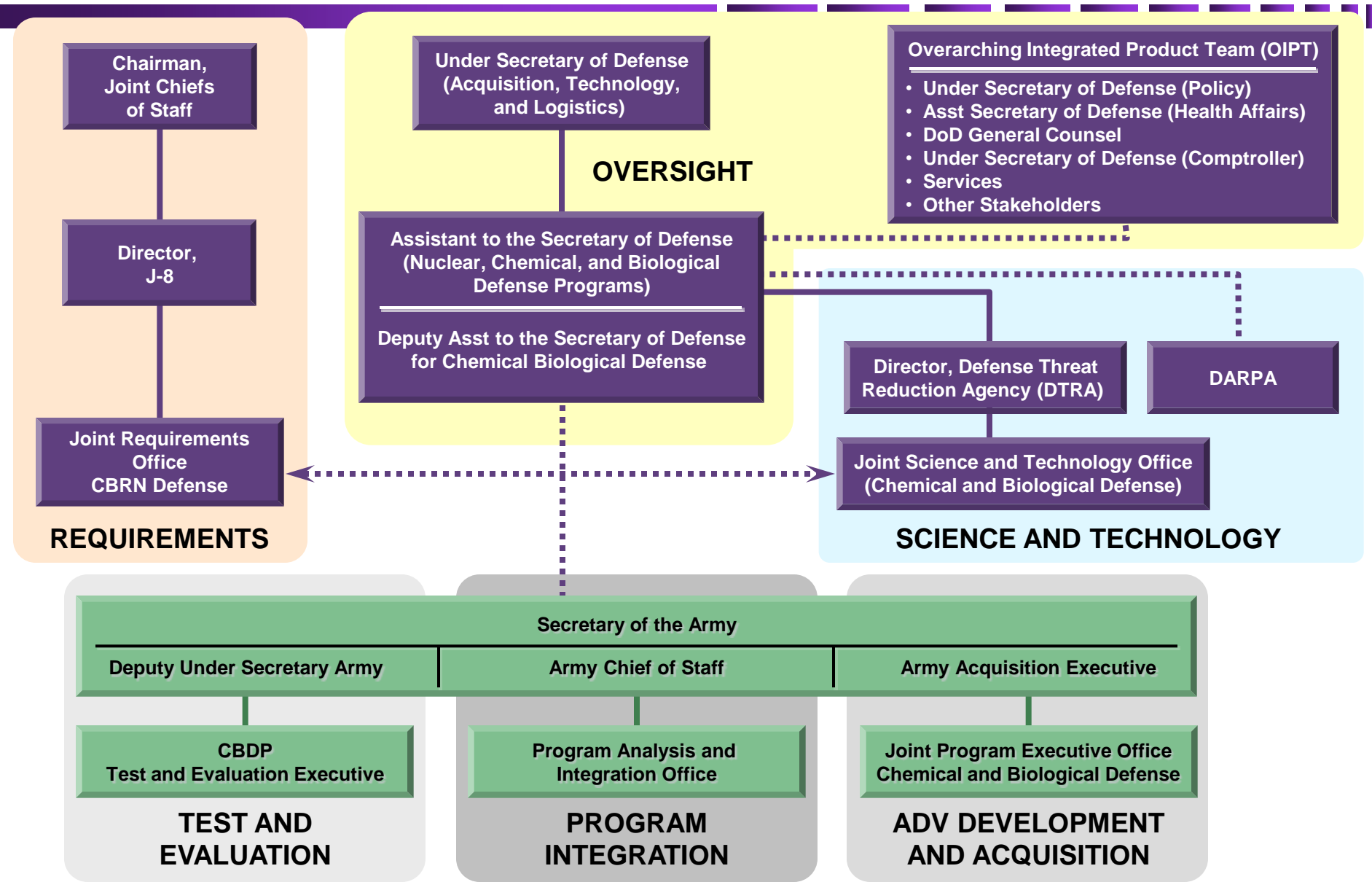


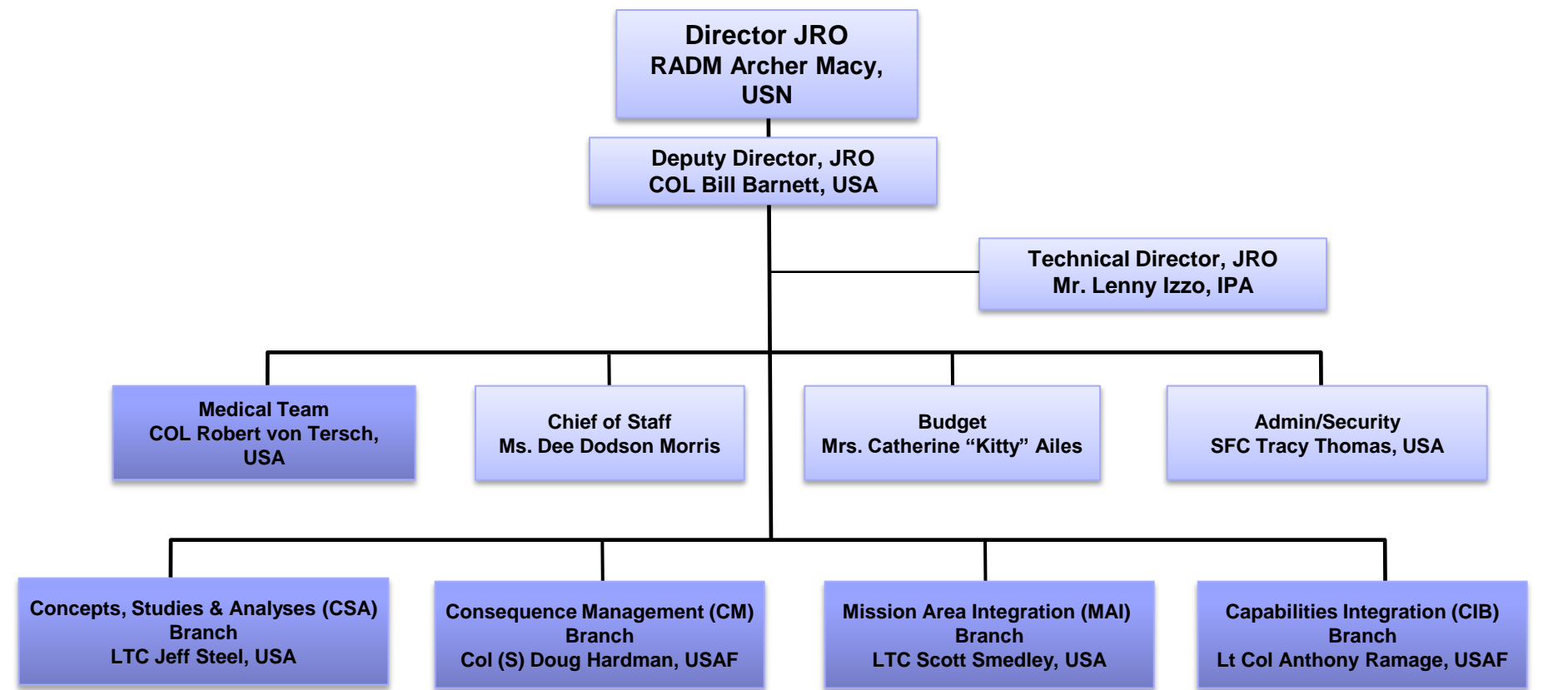
# ***Implications for Chemical, Biological, Radiological and Nuclear Requirements***

**8 SEP 10**

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# Chemical Biological Defense Program Enterprise






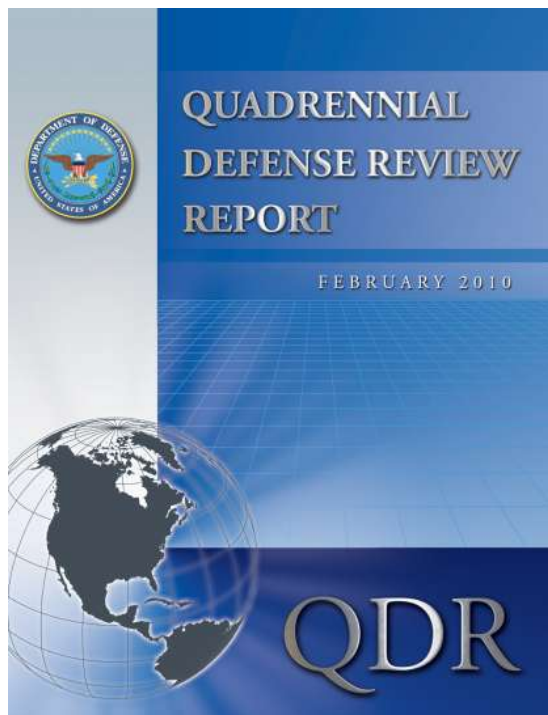
## *DoD's Four Strategic CWMD Priorities*



- **Increase barriers to WMD proliferation and use**
- **Improve ability to identify and mitigate emergent WMD threats**
- **Develop layered, integrated WMD defense**
- **Manage WMD threats emanating from failing, fragile states/ungoverned territories**

- 
- **Quadrennial Defense Review**
  - **National Strategy for Countering Biological Threats**
  - **Nuclear Posture Review**
  - **Summary**

# *Quadrennial Defense Review Report*



The QDR Report identifies six key missions:

- ***Defend the United States and support civil authorities at home;***
  - Succeed in counterinsurgency, stability, and counterterrorism operations;
  - Build the security capacity of partner states;
  - Deter and defeat aggression in anti-access environments;
- ***Prevent proliferation and counter weapons of mass destruction***
  - Operate effectively in cyberspace.

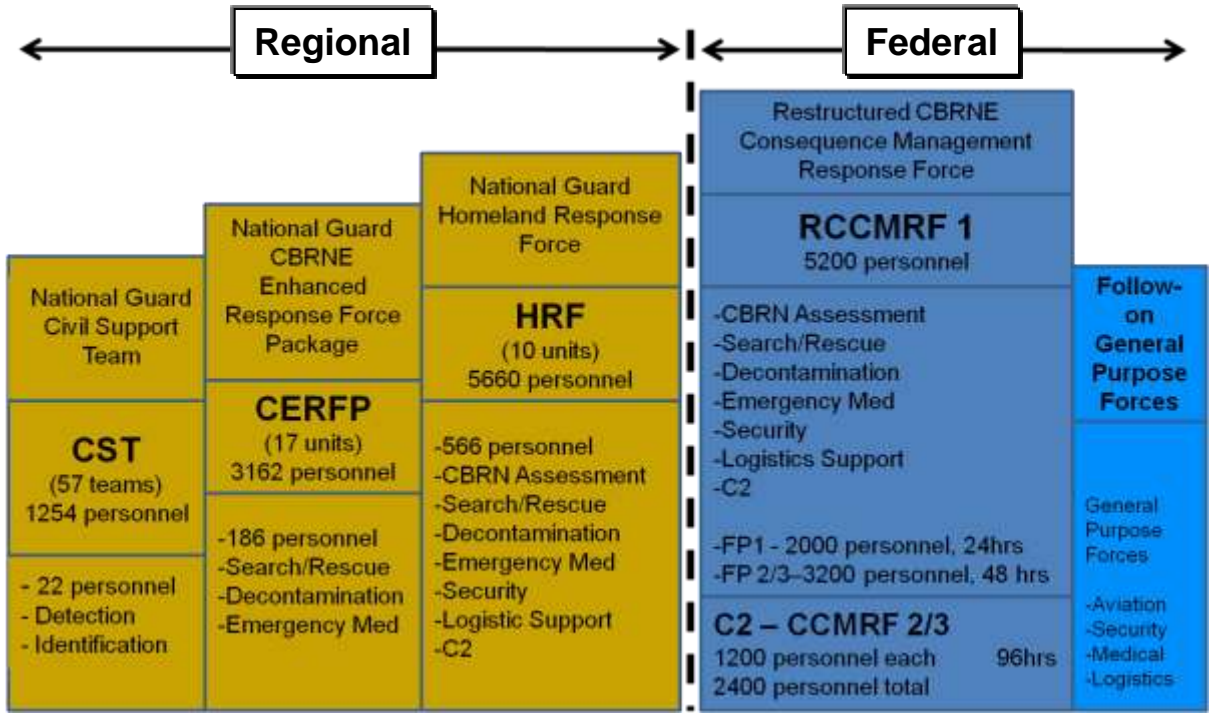
# *Quadrennial Defense Review CBDP Directives*



- Defend the United States and support civil authorities at home:
  - Restructured Consequence Management Response forces;
  - Foreign Consequence Management
  - Establish a Standing Joint Task Force – Elimination Headquarters
- Prevent proliferation and counter weapons of mass destruction
  - Develop countermeasures and defense against non-traditional agents
  - Enhance biosurveillance capabilities
  - Address emerging infectious diseases

# Restructured Consequence Management Response

- Enhanced lifesaving capabilities
- Maximize flexibility
- Reduce response times



Expanded to 10 FEMA regionally aligned Homeland Response Forces (HRFs)

Creates C2 CBRNE Response Enterprise (CRE) of ~1500 pax each



# *Foreign Consequence Management*

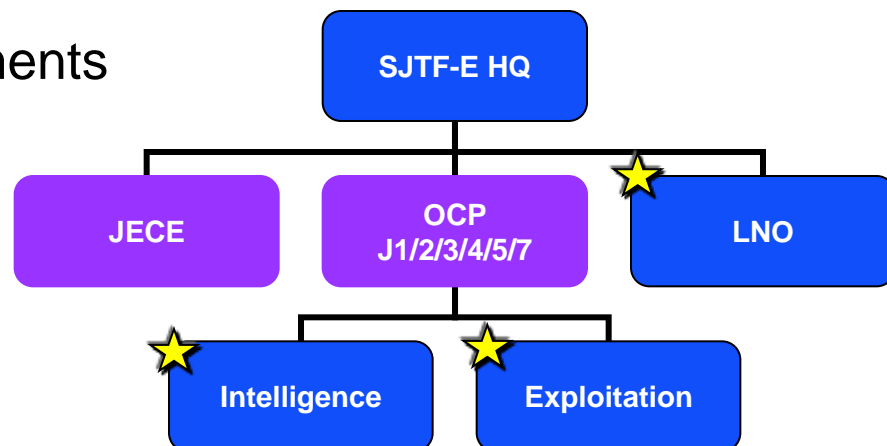


- **USEUCOM Doctrine, Organization, Training, Materiel, Leadership, Personnel and Facilities (DOTMLPF) Change Request (DCR)**
  - Increase assessment capability
  - Increase mitigation capability
  - Pending JCB
- **HYDRA EXPRESS**
  - STRATCOM TTX supported by NDU CWMD
  - Focused on DoD role in support of partners and allies
  - CBRN threat from violent extremist organizations

***...PROXIMATE LIGHTNING***


# *Standing Joint Task Force-Elimination Headquarters*

- Builds on current Organizations
  - Joint elimination coordination element
  - 20th SUPCOM Operational command post
- ★ Adds liaison officers
- ★ Adds Intel and exploitation elements



- Enhances planning, training and exercise support
- Provides core of trained SMEs to reduce response time and increase immediate effectiveness
- Establishes a focus for COCOM support
- Institutionalizes WMD Elimination as a routine regional operation

# *Non-Traditional Agent (NTA) Defense Overview*



- NTAs pose unique risks and challenge for our defense capabilities and this initiative must address emerging and future capabilities.
- Priorities for the development of NTA defense capabilities:
  - **Scientific Understanding:**
    - Chemical and Physical Properties
    - Toxicology
    - Environmental Fate
  - **Defense Capability Area (in order of priority):**
    - Detection
    - Medical countermeasures
    - Decontamination
    - Individual protection

**Fielding an interim NTA defense capability is integral to our near term efforts**

# *DoD Biosurveillance Activities*



- Current DoD activities include:
  - Recognizing that biological threat agents includes biological terrorist related threats as well as emerging infectious diseases.
  - Establishing strategic research partnerships and scientific cooperation efforts with partner nations.
  - Strengthening DoD's efforts in countering biological threats, by executing Chemical and Biological Defense Program (CBDP) Funds for preparedness and response activities.
  - Developing global and interagency partners in integrated global biosurveillance (Cooperative Threat Reduction/Biological Threat Reduction Program).
- Response to Emerging Biological Threats
  - Therapeutics
  - Vaccines

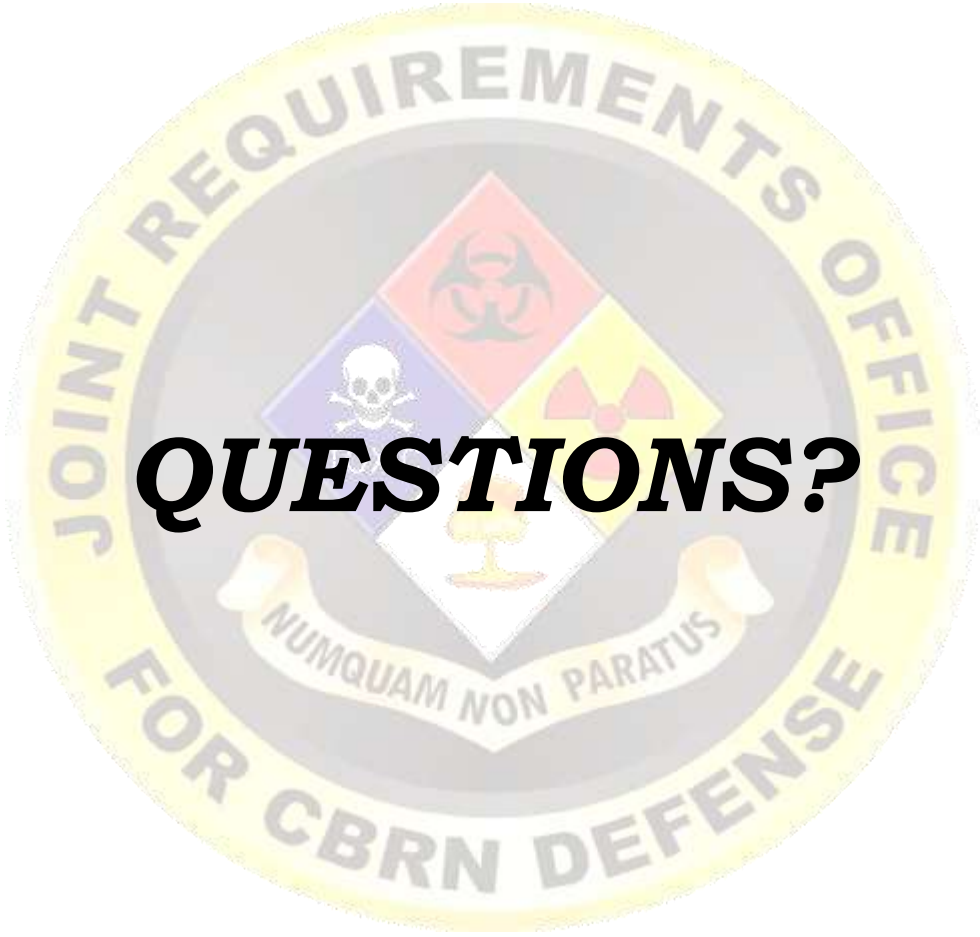
# *Nuclear Posture Review*



- **Strengthen National Technical Nuclear Forensics**
  - Identify source of nuclear material
  - Hold accountable any group
- **NTNF JCTD**
- **NTNF ICD pending approval**
  - Ground collection
  - Airborne collection

# *Summary*

- **New or expanded requirements include:**
  - **Field faster, more flexible CM response forces**
  - **Strengthen ability to conduct forensics and attribution**
  - **Enhance worldwide biological surveillance**
  - **Rapidly field defensive countermeasures**
  - **Organize a Standing JTF-E Headquarters**





**BACK UP  
SLIDES**



# Mission Areas for Combating WMD



**Offensive Operations**



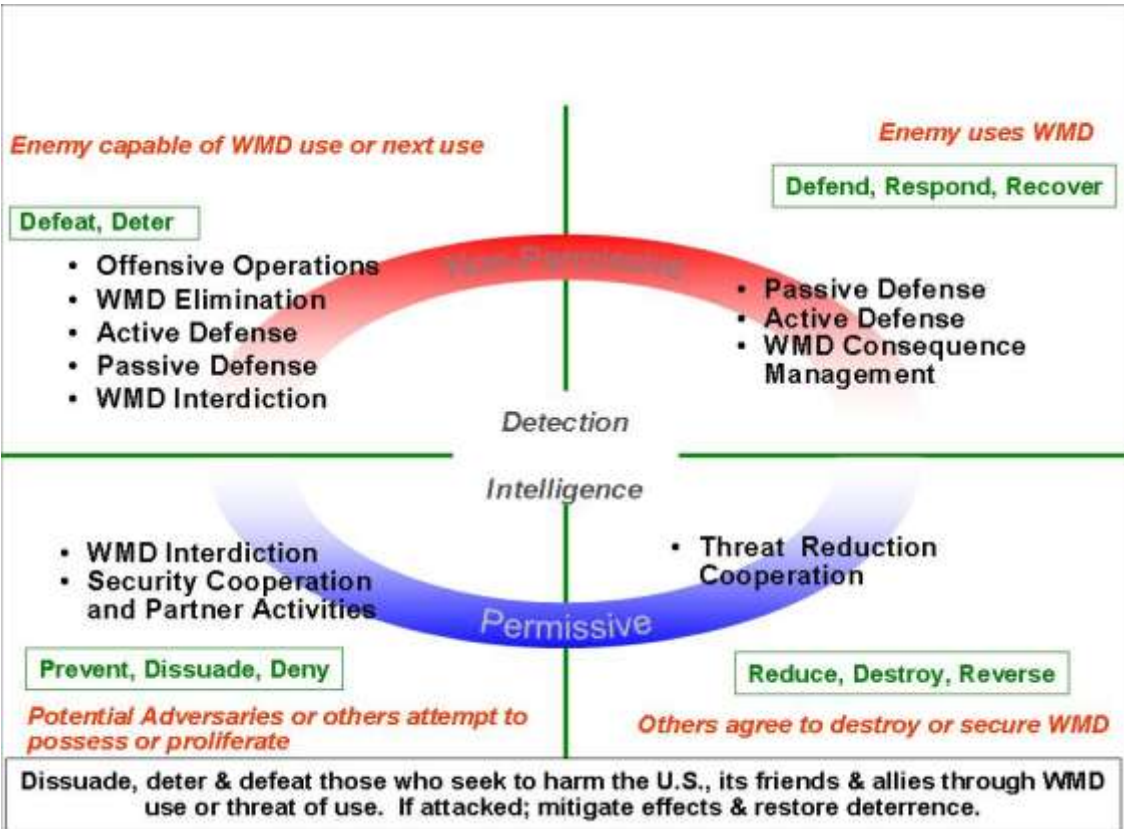
**Active Defense**




**Elimination**




**Interdiction**







**Passive Defense**



**WMD Consequence Management**



**Threat Reduction Cooperation**



**Security Cooperation and Partnership Activities**

# *JRO – CBRND Roles and Responsibilities*

## Concepts, Studies/Analyses

- Develop Operational Concepts
- Conduct CBAs
- Participate in experiments, demos and Joint Capability Technology Demos
- Oversee Joint Combat Developer for Experimentation
- Develop/manage studies
- Advocacy for Science & Tech/Modeling & Sim
- Coordinate Threat Assessments & Input
- Develop Analytic Agenda

## Mission Area Integration

- Develop Modernization Plan
- Coordinate CbtWMD WG
- Support Protection FCB
- Incorporate CWMD/CBRND Aspects for CPR and CPA
- Joint Capability Area coord
- Protection CPM for CWMD/CBRND
- Lead POM development
- Coordinate all Joint Staff/J-8 CWMD efforts
- Conduct Program Reviews and Readiness Reviews
- Coordinate liaison support
- Support International Efforts

## Capabilities Integration

- Identify/develop CBRND materiel capabilities (JCIDS)
- Manage Joint Capabilities Integration Development System documents
- Identify/develop CBRND Passive Defense non-material capabilities
- Provide warfighter advocacy to PMs, T&E, and Science & Tech organizations
- Coordinate Passive Defense doctrine, training and education issues
- Participate in Multi-national agreements with NATO and AUSCAUKUS

## Consequence Management

- Facilitate and advocate for domestic and non-domestic CBRN CM material/non-material capabilities
- Joint Staff lead for joint CBRN CM resource issues including POM development and Protection CPM issues
- Joint Staff lead for DoD Installation Protection Program
- Conduct and support CBRN CM capability studies, analyses, and assessments

## Medical Integration

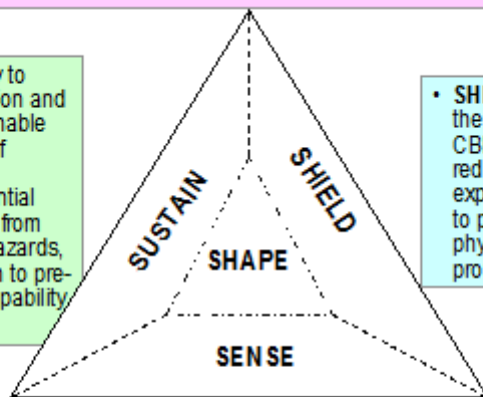
- Integrate and advocate for Medical capabilities across CBRND mission areas
- Manage Medical CBRND JCIDS documents ICW CIB
- Coordinate Medical CBRND capabilities with Services, COCOMs, OSD (ASD HA), Joint Staff, advanced tech developers and Medical S&T
- Participate in NATO Medical CBRN WG and BioMed WG; coordinate with AUSCAUKUS Med Requirements Team
- Advise the Director, Deputy Director and JRO decision maker on Medical CBRND aspects

# Joint CBRN Defense Operational Capabilities

## Joint CBRN Defense Concept

- **SHAPE** – Provides the ability to characterize the CBRN hazard to the force commander - develop a clear understanding of the current and predicted CBRN situation; collect and assimilate info from sensors, intelligence, medical, etc., in near real time to inform personnel, provide actual and potential impacts of CBRN hazards; envision critical SENSE, SHIELD and SUSTAIN end states (preparation for operations); visualize the sequence of events that moves the force from its current state to those end states.

- **SUSTAIN** – The ability to conduct decontamination and medical actions that enable the quick restoration of combat power, maintain/recover essential functions that are free from the effects of CBRN hazards, and facilitate the return to pre-incident operational capability as soon as possible.



- **SHIELD** – The capability to shield the force from harm caused by CBRN hazards by preventing or reducing individual and collective exposures, applying prophylaxis to prevent or mitigate negative physiological effects, and protecting critical equipment

- **SENSE** – The capability to continually provide the information about the CBRN situation at a time and place by detecting, identifying, and quantifying CBRN hazards in air, water, on land, on personnel, equipment or facilities. This capability includes detecting, identifying, and quantifying those CBRN hazards in all physical states (solid, liquid, gas).

## SENSE

- Point Detection
- Stand-off Detection
- Reconnaissance
- Medical Diagnostics

## SHAPE

- Integrated Early Warning
- Battle-space Management
- Battle-space Analysis

## SHIELD

- Respiratory and Ocular Protection
- Percutaneous Protection
- Expeditionary Collective Protection
- Medical Prophylaxes

## SUSTAIN

- Individual Decontamination
- Equipment Decontamination
- Fixed Site Decontamination
- Medical Therapeutics